



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Rhoads et al.

Application No.: 10/723,731

Filed: November 26, 2003

For: METHOD FOR UTILIZING FRAGILE
WATERMARK FOR ENHANCED
SECURITY

Examiner: A. Johns

Date: March 16, 2006

Art Unit 2621

Confirmation No. 9796

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on March 16, 2006, as First Class Mail in an envelope addressed to: MAIL STOP AMENDMENT, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

Steven W. Stewart
Attorney for Applicant

INFORMATION DISCLOSURE STATEMENT

MAIL STOP AMENDMENT
COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

Applicants submit herewith information of which they are aware, and which they believe may be material to the examination of the application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. § 1.56. The information is listed on the attached Form PTO-1449. Copies of the foreign patent publications, cited patent prosecution documents and non-patent references are enclosed.

The submission of information on the attached Form PTO-1449 is not intended as an admission that any such information constitutes prior art against the claims of the application under examination. Applicants do not waive any right to take any appropriate action to antedate or otherwise remove any information from the attached Form PTO-1449.

No fee is required since this document is being submitted prior to the date of a first Office action.

If a first Office action on the merits was mailed prior to the mailing of this Information Disclosure Statement, please charge to Deposit Account No. 50-1071 any fees that may be required for considering this Information Disclosure Statement under 37 C.F.R. § 1.17(p).

Date: March 16, 2006

Respectfully submitted,

DIGIMARC CORPORATION

Customer Number 23735

Phone: 503-469-4800
FAX: 503-469-4777

By 

Steven W. Stewart
Registration No. 45,133


**INFORMATION
DISCLOSURE
STATEMENT**

Docket: P0914	Ser. No. 10/723,731
Applicant: Rhoads et al.	
Filed: 11/26/03	Group: 2621

US Patent Documents

Ex'r Initial	Number	Date	Inventor	Class
	20010008557	7/19/01	Stefik et al.	
	20010020270	9/6/01	Yeung et al.	
	20010021144	9/13/01	Oshima et al.	
	20010026377	10/4/01	Ikegami	
	20010028725	10/11/01	Nakagawa et al.	
	20010028727	10/11/01	Naito et al.	
	20010047478	11/29/01	Mase	
	20010051996	12/13/01	Cooper et al.	
	20010052076	12/13/01	Kadono	
	20010053235	12/20/01	Sato	
	20010054144	12/20/01	Epstein et al.	
	20020010684	1/24/02	Moskowitz	
	20020023148	2/21/02	Ritz et al.	
	20020033844	3/21/02	Levy et al.	
	20020037091	3/28/02	Terasaki	
	20020037093	3/28/02	Murphy	
	20020061121	5/23/02	Rhoads et al.	
	20020061122	5/23/02	Fujihara et al.	
	20020064298	5/30/02	Rhoads et al.	
	20020064759	5/30/02	Durbin et al.	
	20020067914	6/6/02	Schumann et al.	
	20020068987	6/6/02	Hars	
	20020071556	6/13/02	Moskowitz et al.	
	20020073317	6/13/02	Hars	
	20020080396	6/27/02	Silverbrook et al.	
	20020095577	7/18/02	Nakamura et al.	
	20020097873	7/25/02	Petrovic	
	20020097891	7/25/02	Hinishi	
	20020105679	8/8/02	Haynes	
	20020112171	8/15/02	Ginter et al.	
	20020114458	8/22/02	Belenko et al.	
	20020122568	9/5/02	Zhao	
	20020159615	10/31/02	Rhoads et al.	
	20020176114	11/28/02	Zeller et al.	
	20030128860	07/10/03	Braudaway et al.	
	20010024510	9/27/2001	Iwamura	
	20020015509	2/07/2002	Nakamura	

Examiner Signature:

Date Considered:

*Examiner: Initial if considered, whether or not in conformance with MPEP 609; draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT	Docket: P0914	Ser. No. 10/723,731
	Applicant: Rhoads et al.	
	Filed: 11/26/03	Group: 2621

20020062442	5/23/2002	Kurahash
20020106192	8/08/2002	Sako
20030009669	1/09/2003	White
20050058320	3/17/05	Rhoads et al.
4689477	8/97	Goldman
4723072	2/1998	Naruse
5237164	8/17/93	Takada
5284364	2/8/94	Jain
5337361	8/9/94	Wang et al.
5354097	10/1994	Tel
5384846	1/24/95	Berson et al.
5436970	7/25/95	Ray et al.
5471533	11/95	Wang et al.
5490217	2/6/96	Wang et al.
5646997	7/8/97	Barton
5659726	8/97	Sandford, II et al.
5664018	9/2/97	Leighton
5694471	12/2/97	Chen et al.
5748763	5/5/98	Rhoads
5751854	5/12/98	Saitoh et al.
5799092	8/25/98	Kristol et al.
5822436	10/13/98	Rhoads
5841886	11/24/98	Rhoads
5841886	11/1998	Rhoads
5864622	1/26/99	Marcus
5892900	4/6/99	Ginter et al.
5905800	5/18/99	Moskowitz et al.
5907149	5/25/99	Marckini
5912974	6/15/99	Holloway et al.
5943422	8/1999	Van Wie et al.
5951055	9/14/99	Mowry, Jr.
6026193	2/15/00	Rhoads
6065119	5/2000	Sandford, II et al.
6104812	8/15/00	Koltai et al.
6185683	2/6/01	Ginter et al.
6226387	5/1/01	Tewfik et al.
6233347	5/15/01	Chen et al.
6233684	5/15/01	Stefik et al.
6237786	5/29/01	Ginter et al.

Examiner Signature:	Date Considered:
<p>*Examiner: Initial if considered, whether or not in conformance with MPEP 609; draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

INFORMATION DISCLOSURE STATEMENT	Docket: P0914	Ser. No. 10/723,731
	Applicant: Rhoads et al.	
	Filed: 11/26/03	Group: 2621

6240121	5/2001	Senoh
6246775	6/12/01	Nakamura et al.
6246777	6/12/01	Agarwal et al.
6272176	8/7/01	Srinivasan
6272634	8/2001	Tewfik et al.
6275599	8/14/01	Adler et al.
6285775	9/4/01	Wu et al.
6285776	9/4/01	Rhoads
6289108	9/11/01	Rhoads
6292092	9/18/01	Chow et al.
6314192	11/6/01	Chen et al.
6314457	11/6/01	Schena et al.
6332031	12/18/01	Rhoads et al.
6332194	12/18/01	Bloom et al.
6334187	12/25/01	Kadono
6343138	1/29/02	Rhoads
6398245	6/4/02	Gruse et al.
6418232	7/9/02	Nakano et al.
6425081	7/23/02	Iwamura
6427020	7/30/02	Rhoads
6427140	7/30/02	Ginter et al.
6439465	8/27/02	Bloomberg
6456726	9/24/02	Yu et al.
6487301	11/26/02	Zhao
6512837	1/2003	Ahmed
6542618	4/1/03	Rhoads
6577746	6/10/03	Evans et al.
6591365	7/8/03	Cookson
6636615	10/21/03	Rhoads, et al.
4238849	12/9/1980	Gassmann
5228056	7/13/1993	Schilling
5450490	9/12/1995	Jensen
5510900	4/23/1996	Shirochi
5652626	7/29/1997	Kawakami
5841886	11/24/1998	Rhoads
5857038	1/05/1999	Owanda
6024287	2/15/2000	Takai
6243480	6/05/2001	Zhao
6278792	08/21/2001	Cox

Examiner Signature:

Date Considered:

*Examiner: Initial if considered, whether or not in conformance with MPEP 609; draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT	Docket: P0914	Ser. No. 10/723,731
	Applicant: Rhoads et al.	
	Filed: 11/26/03	Group: 2621

6374036	4/16/2002	Ryan	
6389151	5/14/2002	Carr	
6427012	7/30/2002	Petrovic	
6542618	4/01/2003	Rhoads	
6574350	6/03/2003	Rhoads	
6580819	6/17/2003	Rhoads	
6728390	4/27/2004	Rhoads	
6744906	6/1/04	Rhoads et al.	

Foreign Patent Documents

Ex'r Initial	Number	Date	Inventor	Class
	DE 29 43 436	5/1981	DE (with English translation)	
	EP 629 972	12/21/94	EPO	
	EP 975 147	1/26/00	EPO	
	EP1041815	10/2000	EPO	
	EP1077570	2/21/01	EPO	
	EP1202250	5/2/02	EPO	
	GB2346110	8/2/00	GB	
	JP3-185585	8/13/91	Japan (with English translation)	
	WO95/13597	5/18/95	WO	
	WO9820411	5/14/98	WO	

Other References

Ex'r Initial	Cite
	Chow et al., "Forgery and Tamper-Proof Identification Document," IEEE Proc. 1993 Int. Carnahan Conf. on Security Technology, Oct. 13-15, 1993, pp. 11-14.*
	EMI "Screening Content from Compact Discs: ID Trac," SDMII 6/3/99, 13 pages.
	Kawaguchi et al., "Principle and Applications of BPCS-Steganography," Proc. SPIE Vol. 3528: Multimedia Systems and Applications, 2-4 Nov 1998, pp. 464-473.
	Komatsu et al., "Authentication System Using Concealed Image in Telematics," Memoirs of the School of Science & Engineering, Waseda Univ., No. 52, 1988, pp. 45-60.
	Komatsu et al., "A Proposal on Digital Watermarking in Document Image Communication and Its Application to Realizing a Signature," Electronics and Communications in Japan, Part I, Vol., 73, No. 5, 1990, pp. 22-23.
	Kundur et al., "A Robust Digital Image Watermarking Method Using Wavelet-Based Fusion," IEEE July 1997, pages 544-547.
	Lamy, P. et al., "Content-Based Watermarking for Image Authentication," Proc. 3.sup.rd Int. Workshop on Information Hiding, Sep./Oct. 1999, pp. 187-198.
	Lin, C.-Y. et al., "Generating Robust Digital Signature for Image/Video Authentication," Proc. Multimedia and Security Workshop at ACM Multimedia'98, Sep. 1998, pp. 49-54.
	Lin, C.-Y. et al., "Issues and Solutions for Authenticating MPEG Video," Proc. SPIE vol. 3657: Security and Watermarking of Multimedia Contents, Jan. 1999, pp. 54-65.

Examiner Signature:	Date Considered:
<p>*Examiner: Initial if considered, whether or not in conformance with MPEP 609; draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

INFORMATION DISCLOSURE STATEMENT	Docket: P0914	Ser. No. 10/723,731
	Applicant: Rhoads et al.	
	Filed: 11/26/03	Group: 2621

F. Mintzer and G. Braudaway, "If one watermark is good, are more better?" Proceedings of the International Conference on Acoustics, Speech, and Signal Processing, vol. 4, Phoenix, Arizona, May 1999.
Schneider, M., "A Robust Content Based Digital Signature for Image Authentication," IEEE Proc. Int. Conf. on Image Processing, Sep. 1996, pp. 227-230 (vol. 3).
Seybold Report on Desktop Publishing, "Holographic Signatures for Digital Images," August, 1995, 1 page.
Office Action (1/26/05), Response (4/26/05), Supplemental Response and Clayton Davidson Declaration (6/10/05), Final Office Action (9/30/05) and Amendment After Final (10/4/05), and Notice of Allowance (11/03/05), each from assignee's U.S. Patent Application No. 10/112,647 (published as US 2002-0159615 A1).
Cookson, Chris, General Principles of Music Uses on Portable Devices, presentation to SDMI, March 5, 1999.
Winograd, J.M., Audio Watermarking Architecture for Secure Digital Music Distribution," a Proposal to the SDMI Portable Devices Working Group, by Aris Tech. Inc., March 26, 1999.
U.S. provisional patent application no. 60/116,641, filed 1/21/99 to Christopher Cookson.
Audio Watermarking Architectures for Secure Digital Music Distribution, A Proposal to the SDMI Portable Devices Working Group by ARIS Technologies, Inc, March 26, 1999, pp. 1-11.
Audio Watermarking Architectures for Persistent Protection, Presentation to SDMI PDWG, March 29, 1999, J. Winograd, Aris Technologies, pp 1-16.
Audio Watermarking System to Screen Digital Audio Content for LCM Acceptance, A Proposal Submitted in Response to PDWG99050504-Transition CfP by ARIS Technologies, Inc., May 23, 1999, Document Version 1.0, 15 pages.
Levy, "AIPL's Proposal for SDMI: An Underlying Security System" (slide presentation), March 29, 1999, 23 slides.
Microsoft Response to CfP for Technology Solutions to Screen Digital Audio Content for LCM Acceptance, SDMI, PDWG Tokyo, May 23, 1999, 9 pages.
Philips Electronics, Response to Call for Proposals Issued by the Data Hiding Sub Group Copy Protection Technical Working Group, 1997.
Notice of Abandonment and Interview Summary (2/24/06), Final Office Action (7/26/05), Amendment (3/29/05), Office Action (2/7/05), each from U.S. Patent Application No. 10/087,314 (published as 2002-0176114).

Examiner Signature:	Date Considered:
<p>*Examiner: Initial if considered, whether or not in conformance with MPEP 609; draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	